Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-5.   (Canceled)

1   6.   (Previously presented) A signal detection method comprising:

2   (a) receiving a transmitted signal as a received signal, the transmitted signal

3 comprising a first signal correlated with a pseudo-random number sequence, the first signal

4 representative of an information signal, the received signal comprising one or more reflected

5 signals and a line-of-sight signal;

6   (b) producing a matched signal from the received signal;

7   (c) correlating the matched signal with the pseudo-random number sequence to

8 produce a correlated signal, the correlated signal comprising a main lobe and a plurality of side

9 lobes;

10   (d) determining a peak value of the main lobe;

11   (e) determining a time value associated with the peak value of the main lobe;

12   (f) determining a threshold value based on the correlated signal; and

13   (g) if one of peak value of the main lobe and the plurality of side lobes exceeds

14 the threshold value, then subtracting a template signal from the correlated signal to produce a

15 new signal and repeating the steps (c) - (g) with the new signal, wherein the threshold value is

16 recomputed with each iteration of the steps (c) - (g),

17   wherein a plurality of time values are produced by the repetition of steps (c)-(g),

18 and

19   wherein the smallest of the time values represents the arrival time of the line-of-

20 sight signal.

Appl. No. 10/651,449
Amdt. dated June 7, 2007
Reply to Office Action of April 4, 2007

PATENT

1   7. (Original) The method of claim 6 wherein the first signal is the

2 information signal.

1   8. (Original) The method of claim 6 wherein the threshold value is based on

2 peak values of the side lobes.

1   9. (Original) The method of claim 6 wherein the threshold value is based on

2 a ratio between the peak value of the main lobe and a peak value of each side lobe.

    10-14. (Canceled)